

STATE OF CALIFORNIA
California Energy Commission
July 15, 2009

Minutes of the July 15, 2009 Energy Commission Business Meeting.

The meeting was called to order at 10:04 by Chairman Karen Douglas. The Pledge of Allegiance was led by Chairman Douglas.

Present:

Karen Douglas, Chairman

Arthur H. Rosenfeld, Commissioner

Jeffrey D. Byron, Commissioner

Julia A. Levin, Commissioner

1. CONSENT CALENDAR. (Items on the Consent Calendar will be taken up and voted on as a group. A commissioner may request that an item be moved and discussed later in the meeting.)
 - a. UNIVERSITY OF FLORIDA. Possible approval of Amendment 1 to Contract 500-06-002 with University of Florida for a no-cost time extension of 27 months to continue work on *Climate Change and Sea Level Rise: Implications for the California Coast*. The University of Florida proposes to subcontract with the Scripps Institution of Oceanography to measure sea cliff erosion and coastal landslide. The data will be used to test the coastal evolution model being developed for this project. Contact: Guido Franco.
 - b. INTER-CON SECURITY SYSTEMS, INC. Possible approval of Amendment 3 to Contract 200-07-004 with Inter-Con Security Systems, Inc., to amend the blended benefits rate per the master service agreement administered by the California Highway Patrol. There is no increase in the total contract amount. Contact: Emily Oren.
 - c. CONSORTIUM FOR ENERGY EFFICIENCY. Possible approval of Contract 500-09-001 for \$18,000 with Consortium for Energy Efficiency for co-sponsorship of the 2009 Lighting For Tomorrow Design Competition. (PIER electricity funding.) Contact Norm Bourassa.

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of the Consent Calendar. The vote was unanimous. (4-0)

2. COLUSA GENERATING STATION (06-AFC-9C). Possible approval of Pacific Gas and Electric Company's (PG&E) petition to modify the Colusa Generating Station project. On August 15, 2008, PG&E filed a Petition to Amend Final Commission Decision relating to relocating and consolidating several buildings and roads, removing a diesel generator, replacing a fire water diesel engine with an electric motor, removing an auxiliary boiler, relocating the gas meter, incorporating a natural gas water bath heating system, and incorporating a wet surface air cooler for additional lubrication oil cooling. Contact: Chris Davis. (10 minutes)

Commissioner Byron moved and Commissioner Rosenfeld seconded approval of the petition. The vote was unanimous. (4-0)

3. HYDROGEN ENERGY CALIFORNIA (08-AFC-8). Contact: Rod Jones. (10 minutes)
 - a. Possible approval of Hydrogen Energy International's revised Application for Certification for Hydrogen Energy California. The project is an integrated gasification combined-cycle power generating facility jointly owned by BP Alternative Energy North America Incorporated and Rio Tinto Hydrogen Energy, LLC. The proposed project would be located on a 473-acre site located approximately 7 miles west of City of Bakersfield and 1.5 miles northwest of the unincorporated community of Tupman in western Kern County, California.

Commissioner Byron moved and Commissioner Levin seconded acceptance of the Application for Certification (AFC) and approval of the Executive Directors recommendation that the AFC be found data inadequate at this time. The vote was unanimous. (4-0)

- b. Possible appointment of a siting committee for the Hydrogen Energy California project.

No action was taken on Item 3b.

4. CITY AND COUNTY OF SAN FRANCISCO. Possible approval of the City and County of San Francisco's Locally Adopted Energy Standards for newly constructed commercial and residential buildings and major renovations. This local ordinance, which requires greater energy efficiency than the 2008 *Building Energy Efficiency Standards*, is proposed to become effective on August 1, 2009. Contact: Bill Pennington. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Levin seconded approval of the City and County of San Francisco's locally adopted energy standards. The vote was unanimous. (4-0)

5. AB 1103 ORDER INSTITUTING RULEMAKING. Possible approval of an Order Instituting Rulemaking to develop and adopt new regulations for a nonresidential building energy performance rating system. The new regulations will provide energy consumption information on nonresidential buildings in the state, as required by California Public Resources Code Section 25402.10, enacted by Assembly Bill 1103 (Saldaña, Chapter 533, Statutes of 2007). Contact: Martha Brook. (5 minutes)

Commissioner Levin moved and Commissioner Rosenfeld seconded approval of the Order Instituting Rulemaking. The vote was unanimous. (4-0)

6. NET SYSTEM POWER REPORT. Possible approval of the 2008 *Net System Power Report* as required by the Power Content Disclosure program. Contact: Sylvia Bender. (10 minutes)

Commissioner Byron moved and Commissioner Rosenfeld seconded approval of the Report. The vote was unanimous. (4-0)

7. SMITHERS SCIENTIFIC SERVICES, INC. Possible approval of Amendment 1 to Contract 600-07-006 with Smithers Scientific Services, Inc., adding \$500,000 and a one-year time extension for continuing technical support for the Energy Commission's fuel-efficient tire program. Contract tasks include tire testing and analysis, evaluation of tire-testing facilities, investigations and studies of rolling resistance, and participation in

workshops, hearings, seminars, proceedings, and conferences. (ERPA funding.) Contact: Mike Smith. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Amendment 1 to Contract 600-07-006. The vote was unanimous. (4-0)

8. CALIFORNIA COMMUNITY COLLEGES CHANCELLOR'S OFFICE. Possible approval of Contract 600-08-009 for \$4.5 million with California Community Colleges to develop training programs in transportation technology and alternative fuel use for California community colleges. The project will provide statewide and regional labor market information to guide future workforce development funding decisions for the Alternative and Renewable Fuels and Vehicle Technology Program. This interagency agreement is consistent with the Governor's Executive Order S-09-09. (ARFVTF funding.) Contact: Mike Smith. (10 minutes)

Commissioner Rosenfeld moved and Commissioner Levin seconded approval of Contract 600-08-009. The vote was unanimous. (4-0)

9. TETRA TECH, INC. Possible approval of Contract 600-08-011 for \$400,000 with Tetra Tech, Inc., to provide engineering and technical support for the Alternative and Renewable Fuel and Vehicle Technology Program. The contractor will assist the Energy Commission in evaluating the engineering and technical merit of project proposals submitted for possible funding under the program. In addition, the contractor will help troubleshoot problems that arise in the development of projects approved for funding and implement solutions to such problems. This contract is consistent with the Governor's Executive Order S-09-09. (ARFVTF funding.) Contact: Mike Smith. (5 minutes)

Commissioner Levin moved and Commissioner Rosenfeld seconded approval of Contract 600-09-003. The vote was unanimous. (4-0)

10. CALIFORNIA STATE UNIVERSITY FULLERTON. Possible approval of Contract 500-09-007 for \$600,000 with California State University Fullerton to measure fugitive methane emissions from the different components of the natural gas system and to develop a more accurate estimate of emissions for California. This interagency agreement is consistent with the Governor's Executive Order S-09-09. (PIER natural gas funding.) Contact: Guido Franco. (5 minutes)

Commissioner Byron moved and Commissioner Rosenfeld seconded approval of Contract 500-09-007. The vote was unanimous. (4-0)

11. SUMMERS CONSULTING, LLC. Possible approval of Grant PIR-08-041 for \$999,925 to Summers Consulting, LLC, to develop independent, scientific performance data related to dairy biogas power systems for renewable energy generation and environmental pollution control. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER natural gas funding.) Contact: Ken Koyama. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Grant PIR-08-041. The vote was unanimous. (4-0)

12. GAS TECHNOLOGY INSTITUTE. Possible approval of Grant PIR-08-044 for \$1 million to Gas Technology Institute to develop a heavy-duty natural gas engine using advanced technologies to improve performance and reduce emissions. Exhaust gas recirculation, three-way catalyst, and spark ignition technology will be incorporated in a new heavy duty

truck (Class 8) engine. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER natural gas funding.) Contact: Ken Koyama. (10 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Grant PIR-08-044. The vote was unanimous. (4-0)

13. WESTPORT POWER, INC. Possible approval of Grant PIR-08-045 for \$998,844 to Westport Power, Inc., to develop low-cost natural gas engine technology with reduced emissions when compared to existing diesel engine technology for heavy-duty vehicles. This project will help bring to market a natural gas vehicle with improved performance and emissions as a competitive option to diesel-powered vehicles. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER natural gas funding.) Contact: Ken Koyama. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Grant PIR-08-045. The vote was unanimous. (4-0)

14. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Contract 500-09-003 for \$636,000 with Lawrence Berkeley National Laboratory (LBNL) to develop a production-quality version of EnergyIQ, a Web-based benchmarking tool. EnergyIQ enables engineers, energy services companies and others to identify potential energy waste and energy saving opportunities in buildings. The tool will interface with data from the Commercial End Use Survey. LBNL will apply for ARRA funding using this project as match share. This contract is consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Norm Bourassa. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Levin seconded approval of Contract 500-09-003. The vote was unanimous. (4-0)

15. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Grant PIR-08-014 to Lawrence Berkeley National Laboratory (LBNL) for \$172,000 to analyze the effects of different types of filters on the energy efficiency of residential heating and air conditioning systems. LBNL will apply for \$600,000 in ARRA funding using this project as match share. (PIER electricity funding.) Contact: Chris Scruton. (5 minutes)

Item 15 was removed from the agenda.

16. BENNINGFIELD GROUP. Possible approval of Grant PIR-08-016 for \$178,370 to Benningfield Group to obtain real-world data to measure the performance of PIER-developed, high-performance package air-conditioning systems compared to conventional package air-conditioning systems in two identical school buildings. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Chris Scruton. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Grant PIR-08-016. The vote was unanimous. (4-0)

17. CONSOL CONSULTING. Possible approval of Grant PIR-08-021 for \$292,173 to ConSol Consulting to study the most cost-effective ways to meet zero net energy goals for new residential buildings in 16 California climate zones through simulation and input from builders and designers. ConSol will apply for \$10 million in ARRA funding using this project as match share. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Chris Scruton. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of Grant PIR-08-021. The vote was unanimous. (4-0)

18. BRUCE WILCOX, P. E. Possible approval of Grant PIR-08-019 for \$296,501 to Bruce Wilcox, P. E., to provide baseline data on builder practices for new homes built under the 2005 Title 24 Building Energy Efficiency Standards. Areas of field study include heating and cooling systems, lighting, and the building envelope. Results will contribute to the 2011 Standards. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity and natural gas funding.) Contact: Chris Scruton. (5 minutes)

Commissioner Levin moved and Commissioner Byron seconded approval of Grant PIR-08-019. The vote was unanimous. (4-0)

19. LAWRENCE BERKELEY NATIONAL LABORATORY. Possible approval of Contract 500-09-002 for \$865,000 with Lawrence Berkeley National Laboratory to conduct research and demonstration projects for data centers. The projects will demonstrate new or under-used technologies and the use of direct current power for operating data center equipment; development of energy design criteria for data centers; and evaluation of energy performance of modular data center equipment. LBNL will apply for ARRA funding using this project as match share. This contract is consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Virginia Lew. (5 minutes)

Commissioner Rosenfeld moved and Commissioner Levin seconded approval of Contract 500-09-002. The vote was unanimous. (4-0)

20. H. T. HARVEY AND ASSOCIATES. Possible approval of Grant PIR-08-027 for \$732,411 to H. T. Harvey and Associates for research to test techniques to assess nocturnal bird and bat activity at wind energy facilities. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

Commissioner Levin moved and Commissioner Byron seconded approval of Grant PIR-08-028. The vote was unanimous. (4-0)

21. CALIFORNIA WIND ENERGY ASSOCIATION. Possible approval of Grant PIR-08-028 for \$442,078 to California Wind Energy Association for research to improve the accuracy of methods for estimating the number of bird and bat fatalities at wind energy facilities. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

Commissioner Levin moved and Commissioner Rosenfeld seconded approval of Grant PIR-08-028. The vote was unanimous. (4-0)

22. EDM INTERNATIONAL, INC. Possible approval of Grant PIR-08-026 for \$165,516 to EDM International, Inc., to evaluate the effectiveness of an avian electrocution risk calculator and of distribution pole retrofitting methods used by utilities. This agreement received fiscal approval consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

Commissioner Levin moved and Commissioner Rosenfeld seconded approval of Grant PIR-08-026. The vote was unanimous. (4-0)

23. USDA FOREST SERVICE. Possible approval of Grant PIR-08-024 for \$550,948 to conduct research to improve the accuracy and cost-effectiveness of pre-construction and operations monitoring of birds and bats at wind energy facilities in California. This agreement is consistent with the Governor's Executive Order S-09-09. (PIER electricity funding.) Contact: Linda Spiegel. (5 minutes)

Commissioner Levin moved and Commissioner Rosenfeld seconded approval of Grant PIR-08-024. The vote was unanimous. (4-0)

24. **Minutes:** Approval of the July 1, 2009, Business Meeting Minutes.

Commissioner Rosenfeld moved and Commissioner Byron seconded approval of the July 1 Minutes. The vote was 3-0-1. Commissioner Levin abstained.

25. **Commission Committee Presentations/Discussion:** None.
26. **Chief Counsel's Report:** None
27. **Executive Director's Report:** Chief Deputy Director Melissa Jones gave the report.
28. **Public Adviser's Report:** Public Adviser Elena Miller gave the report.
29. **Public Comment:** None.

Appearances:

Mr. Scott Galati, Galati & Blek LLP
Mr. Jon Maring, Pacific Gas and Electric Co.
Ms. Tiffany Rau, Hydrogen Energy International, LLC
Mr. Joseph Fischer, California Air Resources Board

There being no further business, the meeting was adjourned.

Respectfully submitted,

HARRIET KALLEMEYN
Secretary to the Commission